Re: NWOD Slope Failure Repair at STA 1047 - Request Agency Concurrence by 3:00 PM Tuesday 10/16/2012

Kathryn Hernandez to: pfuglevand 10/16/2012 10:27 AM

From: Kathryn Hernandez/R8/USEPA/US
To: <pfuglevand@dofnw.com>
Cc: "Teal Dreher" <tdreher@dofnw.com>, "Bill Rees" <brees@utah.gov>, "'Elizabeth Palmer'" <epalmer@utah.gov>, "Laura Briefer" <laura.briefer@slcgov.com>, "Pak, Eugene" <EugenePak@chevron.com>, "Rob Webb" <rwebb@dofnw.com>, "'Skance, John'" <John.Skance@bp.com>, "Galen Williams" <gwilliams@earthfax.com>, "Richard B. White" <rbwhite@earthfax.com>, "Scott Murphy" <smurphy@earthfax.com>, "Eve Barron" <EveBarron@chevron.com>, "Kevin Murray" <kmurray@chapman.com>, "'Nicole Squires'" <squires@chapman.com>, <Sheila.Dcruz@bp.com>, "Cooper, Dave" <dcooper@dofnw.com>, "Dan Pickering" <dpickering@dofnw.com>, "'Suzanne Kaminski'" <skaminski@dofnw.com>

Paul,

EPA and the State DERR agree with your approach for slope stabilization, related to the slope failure near Station 1047 + 00 on the western bank.

Kathy

Kathryn Hernandez
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"Paul Fuglevand" ---10/15/2012 01:25:52 PM---Kathy, Liz, and Bill

From: "Paul Fuglevand" <pfuglevand@dofnw.com>
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Date: 10/15/2012 01:25 PM
Subject: NWOD Slope Failure Repair at STA 1047 - Request Agency Concurrence by 3:00 PM Tuesday 10/16/2012

Kathy, Liz, and Bill

We plan to repair the slope failure described below on Wednesday or Thursday this week, once we get the

equipment and materials lined up. I would appreciate it if you could **reply by 3:00 pm tomorrow,** October 16, 2012 that either you take no issues with the plan described below, or identify modifications to the plan. Thanks. Feel free to call me with any comments or concerns.

Slope Failure at STA 1047

On Friday 10/12/12, the NWOD canal experienced a slope failure near Station 1047+00 on the western bank south of 2300 North in an area that has been confirmed clean (see attached photo). It occurred directly below the low, diagonally-crossing power lines. This failure was approximately 65 feet in length and appears to be as a result of relatively looser/softer soils and an abundance of groundwater in the bank. The slope geometry prior to the failure was as desired and was not significantly undercut as a result of sediment removal. This is expected to be an isolated incident. Additionally, when water returns to the canal, the potential for additional occurrences like this one are reduced due to the ability of the canal water to buttress and equalize water pressure in the bank. If left as-is, this slide area would have the potential to progress into the existing access roadway along the western side of the canal.

Proposed Slope Repair at STA 1047

We intend to excavate the vegetation, disturbed soils, and any potential bathtub ring material along the western bank down to a firm base and rebuild the area with a buttress of spalls (see attached pdf). The remaining material at the toe of the slide is comprised of what appears to be clean clay. This material will be tamped into the base of the canal (to below the original sediment/native soil interface) to act as ballast to the rock buttress.

Since this area has been confirmed clean and is segregated from the rest of the project by the high box culvert at 2300 North, we will pump this water as clean without the requirement of passing it through the water treatment facility unless sheen is observed on the water being pumped, then it will be pumped to the water treatment plant. Since it occurred directly below the low, diagonally-crossing power lines it will be necessary to bring in a smaller support excavator for a day to work from the western bank to repair the slide

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[attachment "Slope Failure at 1047+00.pdf" deleted by Kathryn Hernandez/R8/USEPA/US]